| Ref<br>#  | Hits   | Search Query  | DBs   | Default<br>Operator | Plurals | Time Stamp       |
|-----------|--------|---|---|---------------------|---------|------------------|
| L1        | 39     | pixel same (serial adj2 parallel or<br>s/p or serial-parallel) same (d/a or<br>digital-analog or dac) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | OFF     | 2006/11/07 09:39 |
| S1        | 366845 | (serial near2 parallel) or SP or s/p<br>or (serial adj parallel) or<br>(serial-parallel)              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | OFF     | 2005/01/24 09:45 |
| S2        | 123444 | DA or digital adj analog or<br>(digital-analog)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | OFF     | 2005/01/24 09:46 |
| S3        | 1714   | S1 same S2  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | OFF     | 2005/01/23 13:30 |
| S4        | 121    | S3 same display   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR<br>·             | OFF     | 2005/01/23 13:33 |
| S5        | 7      | S4 same electrode   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | OFF     | 2005/01/23 13:30 |
| S6        | 108    | S4 and @ad<"20020725"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | OFF     | 2005/01/23 13:37 |
| S7        | 32     | S6 and "345"/\$.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | OFF     | 2005/01/23 13:37 |
| <b>S8</b> | 352354 | (serial near1 parallel) or SP or s/p<br>or (serial adj parallel) or<br>(serial-parallel)              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | OFF     | 2005/01/24 09:46 |

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| S9  | 23330  | S8 same (pixel or electrode)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/01/24 09:46 |
| S10 | 123444 | (DA or digital adj analog or (digital-analog))                          | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/01/24 09:47 |
| S11 | 54     | S9 same S10   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/01/24 09:47 |
| S12 | 342243 | (serial adj parallel) or SP or S/P                                      | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/02 10:31 |
| S13 | 342243 | (serial adj parallel) or SP or S/P or<br>serial-parallel                | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/02 10:32 |
| S14 | 2383   | S13 same (DA or (digital adj analog<br>or digital-analog or D/A or DA)) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/02 10:33 |
| S15 | 40     | S14 same pixel  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/02 10:34 |
| S16 | 3      | "6803896"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/05 15:09 |
| S17 | 0      | "6853371"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/05 15:09 |
| S18 | 342441 | serial adj parallel or SP or s/p or<br>serial-parallel                  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/05 15:58 |

| S19 | 1865  | S18 same transistors   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/05 15:58 |
|-----|-------|--|---|----|-----|------------------|
| S20 | 4     | S19 same drain adj signal  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/05 16:05 |
| S21 | 347   | S19 same drain   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/05 16:06 |
| S22 | 14    | S19 same drain near2 signal  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/05 16:06 |
| S23 | 33941 | (DA or digital adj analog or D/A or<br>digital-analog) same capacitor sam<br>epixel same clock | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/06 09:59 |
| S24 | 1092  | S23 same parallel  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/06 09:55 |
| S25 | 26    | S23 same (parallel adj3 signal)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/06 09:55 |
| S26 | 21    | (DA or digital adj analog or D/A or<br>digital-analog) same capacitor same<br>pixel same clock | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/02/06 10:00 |
| S27 | 1178  | pixel with converters  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/07/18 16:03 |
| S28 | 324   | S27 same display\$5  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/07/18 16:04 |

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| S29 | 191    | S28 and "345"/\$.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/07/18 16:21 |
| S30 | 38     | pixel with (serial near3 parallel or<br>SP or S/P) with (digital near2<br>analog or DA or D/A) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/07/18 16:45 |
| S31 | 167    | pixel same (serial near2 parallel or<br>sp or S/P) same (digital near2<br>analog or DA or D/A) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/07/18 16:46 |
| S32 | 375757 | (serial near2 parallel) or sp or S/P   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/07/19 11:34 |
| S33 | 351240 | digital near2 analog or DA or D/A  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/07/19 11:34 |
| S34 | 5934   | S32 same S33   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/07/19 11:34 |
| S35 | 167    | S34 same pixel   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/07/19 11:51 |
| S36 | 83     | pixel\$1 adj3 converters   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/07/19 11:51 |
| S37 | 174    | pixel same (serial near3 parallel or<br>sp or s/p) same (digital near3<br>analog or da or d/a) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/07/19 13:11 |
| S38 | 50     | S37 and "345"/\$.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/07/19 13:24 |

| S39 | 39      | pixel with (serial near3 parallel or<br>sp or s/p) with (da or digital near3<br>analog or d/a) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/07/19 13:25 |
|-----|---------|--|---|----|-----|------------------|
| S40 | 21      | pixel adj3 (serial near2 parallel or<br>sp or s/p) adj3 converter                              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/07/19 14:40 |
| S41 | 1427    | serial near2 parallel with (digital near2 analog)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/07/19 14:41 |
| S42 | 27      | S41 with pixel   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/07/19 14:41 |
| S43 | 365873  | sp or serial near parallel or<br>serial-parallel   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/01/16 15:04 |
| S44 | 2596    | S43 same (DA or digital near analog)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/01/16 15:04 |
| S45 | 59      | S44 same pixel   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/01/16 15:05 |
| S46 | 2120    | pixel same (sp or serial-parallel or<br>serial near parallel)                                  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/01/17 14:52 |
| S47 | 1316843 | S46 same da or digital near2analog   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/01/17 14:52 |
| S48 | 86      | S46 same (da or digital near2 analog)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/01/17 15:15 |

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| S49 | 290391 | da or digital near analog or d/a or D/A  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/01/17 15:15 |
| S50 | 15923  | S49 same (pixel or cell)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/01/17 15:15 |
| S51 | 171    | S50 same (serial near parallel or sp<br>or s/p or serial-parallel or<br>serial-to-parallel)                              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/01/17 15:17 |
| S52 | 48     | S51 and "345"/\$.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/01/17 15:17 |
| S53 | 1178   | (pixel or cell) near2 (sp or s/p or<br>serial adj parallel or serial-parallel)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/01/19 16:35 |
| S54 | 88     | S53 and "345"/\$.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/01/19 16:35 |
| S55 | 3320   | (sp or s/p or serial adj parallel or<br>serial-parallel) same (da or d/a or<br>digital-analog or digital near<br>analog) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/01/19 16:37 |
| S56 | 127    | S55 same (pixel or cell)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/01/19 16:37 |
| S57 | 11960  | (serial-to-parallel or sp or s/p or<br>serial near parallel) with (pixel\$1 or<br>cell\$1)                               | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/01/20 09:21 |
| S58 | 679    | S57 same display   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/01/20 09:21 |

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| S59 | 251   | S58 and "345"/\$.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR       | OFF | 2006/01/20 09:21 |
| S60 | 2     | "6333729".pn.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR       | OFF | 2006/01/20 13:51 |
| S61 | 2     | "20020063666"  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR       | OFF | 2006/01/20 13:53 |
| S62 | 0     | kr-1999-9631   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR       | OFF | 2006/01/20 13:56 |
| S63 | 404   | (serial near parallel or sp or s/p or<br>serial-parallel) near (pixel or cell) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR       | OFF | 2006/01/20 14:03 |
| S64 | 32    | S63 same display   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR       | OFF | 2006/01/20 14:01 |
| S65 | 7892  | (serial near parallel or sp or s/p or serial-parallel)with (pixel or cell)     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR       | OFF | 2006/01/20 14:03 |
| S66 | 521   | S65 same display   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR       | OFF | 2006/01/20 14:04 |
| S67 | 199   | S66 and "345"/\$.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR       | OFF | 2006/01/20 14:16 |
| S68 | 51234 | serial-to-parallel or serial near<br>parallel or s/p or serial-parallel        | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR       | OFF | 2006/08/02 16:25 |

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| S69 | 398279      | DA or digital-analog or d/a or digital near2 analog | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF   | 2006/08/02 16:26 |
| S70 | 3469        | S68 same S69  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF   | 2006/08/02 16:26 |
| S71 | 117         | S70 same pixel                                      | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF   | 2006/08/02 16:32 |
| S72 | 222         | S70 and "345"/\$.ccls.                              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF   | 2006/08/02 16:33 |
| S73 | 1741        | S68 with S69  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF   | 2006/08/02 16:33 |
| S74 | 58          | S73 same pixel                                      | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF . | 2006/08/02 16:37 |
| S75 | 132         | S73 and "345"/\$.ccls.                              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF   | 2006/08/02 16:38 |
| S76 | 2           | "20020021274"                                       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF   | 2006/08/02 16:45 |
| S77 | 4           | ("20020063666" "6333729").PN.                       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF   | 2006/08/02 16:59 |